

FIG. 1

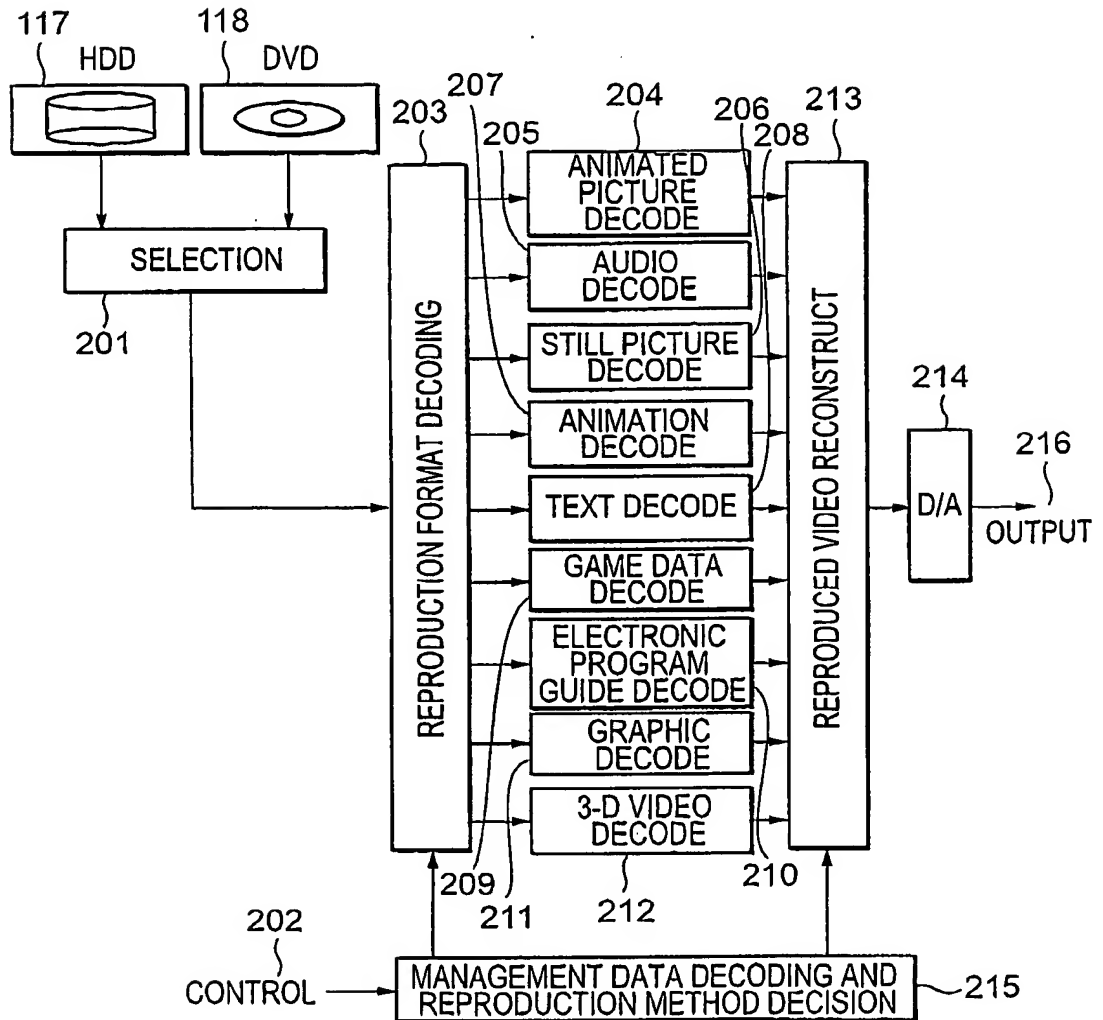


FIG. 2

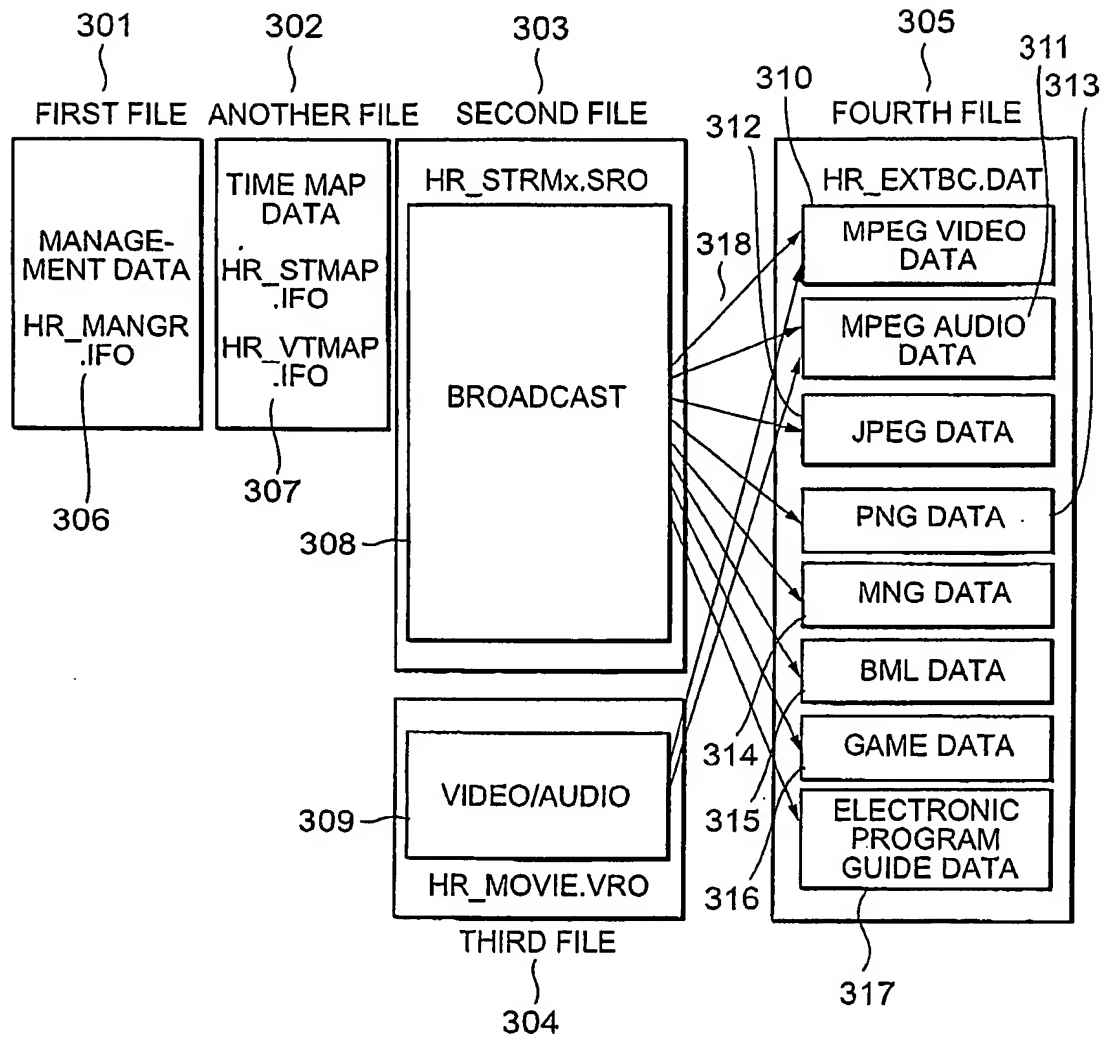


FIG. 3

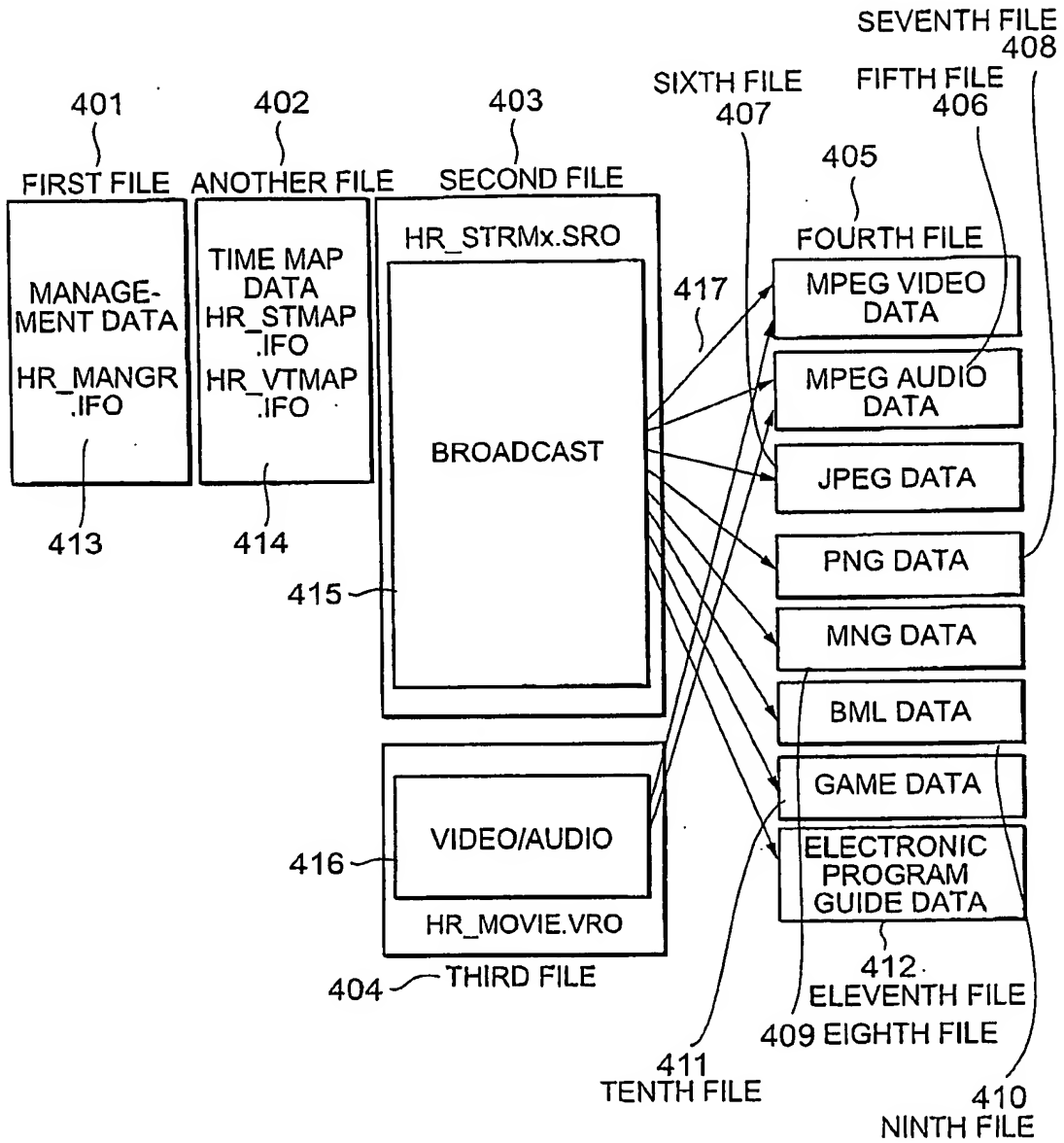


FIG. 4

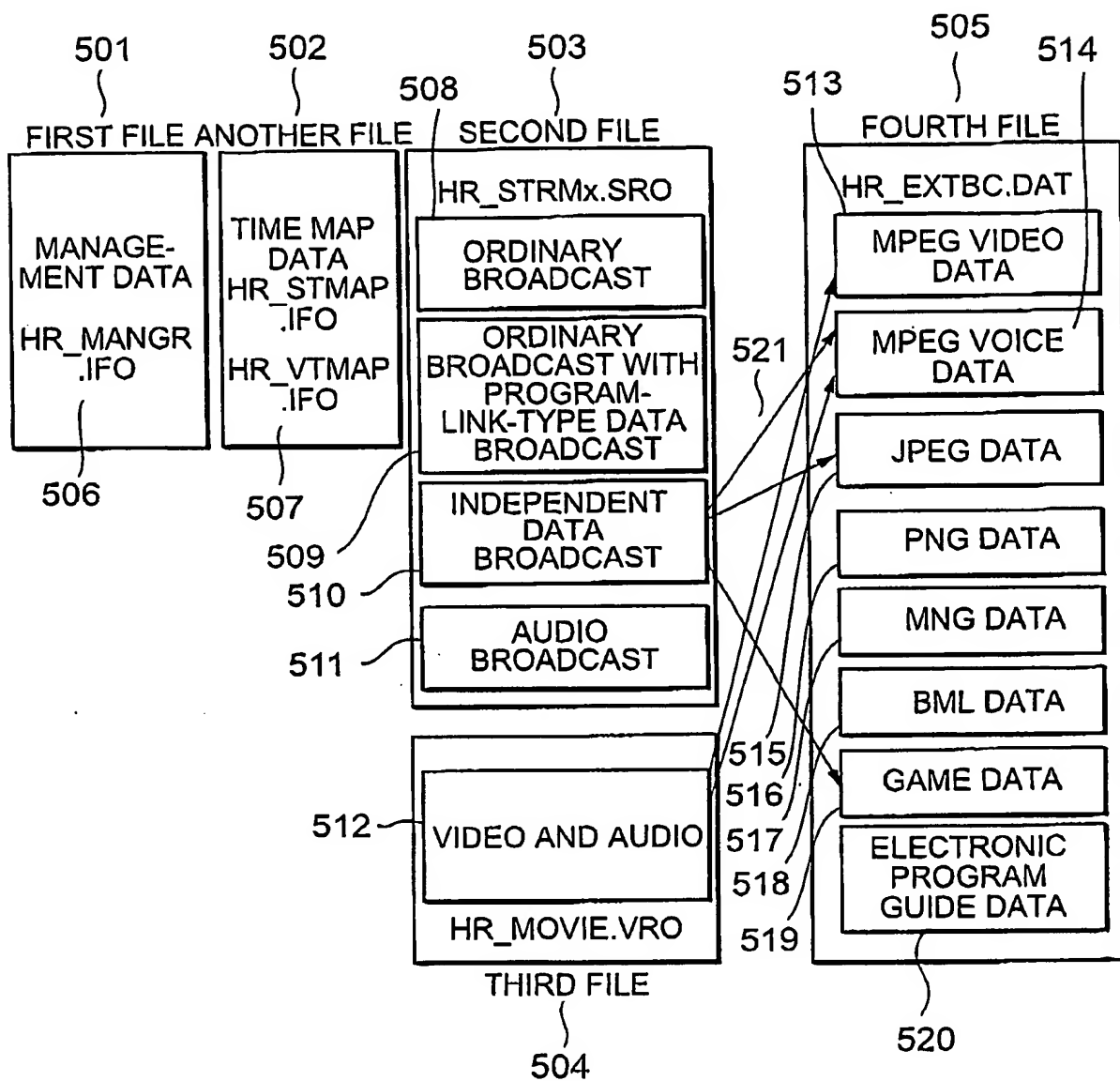


FIG. 5

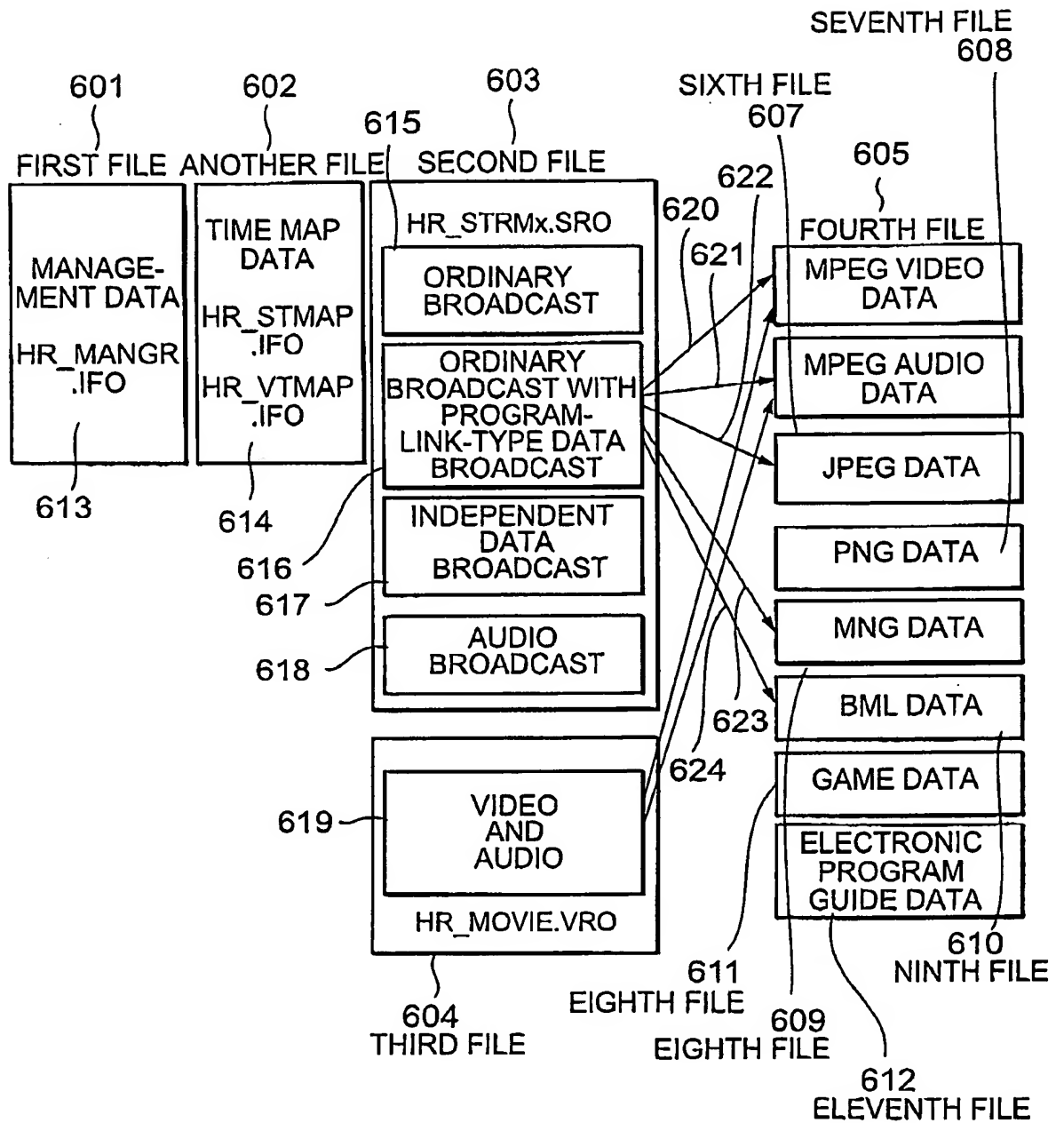


FIG. 6

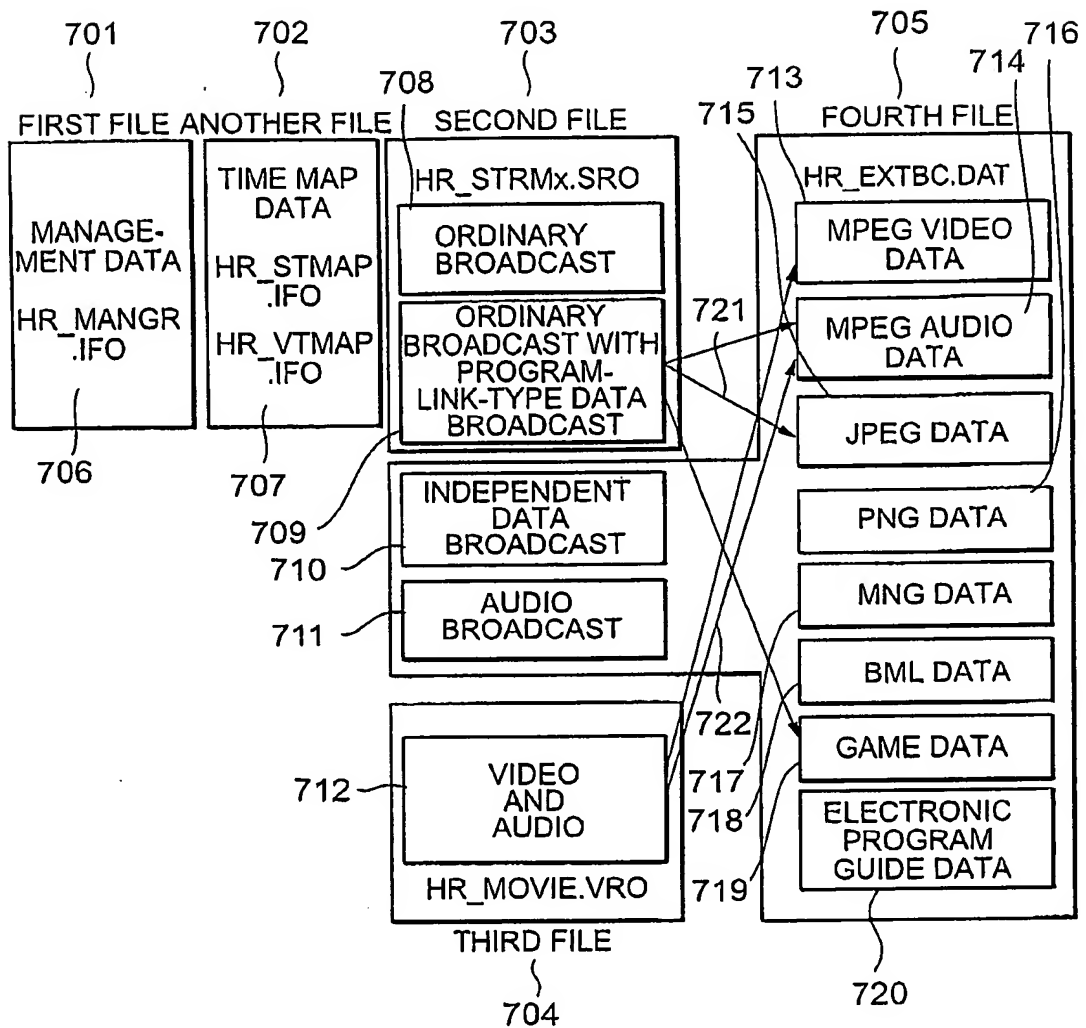


FIG. 7

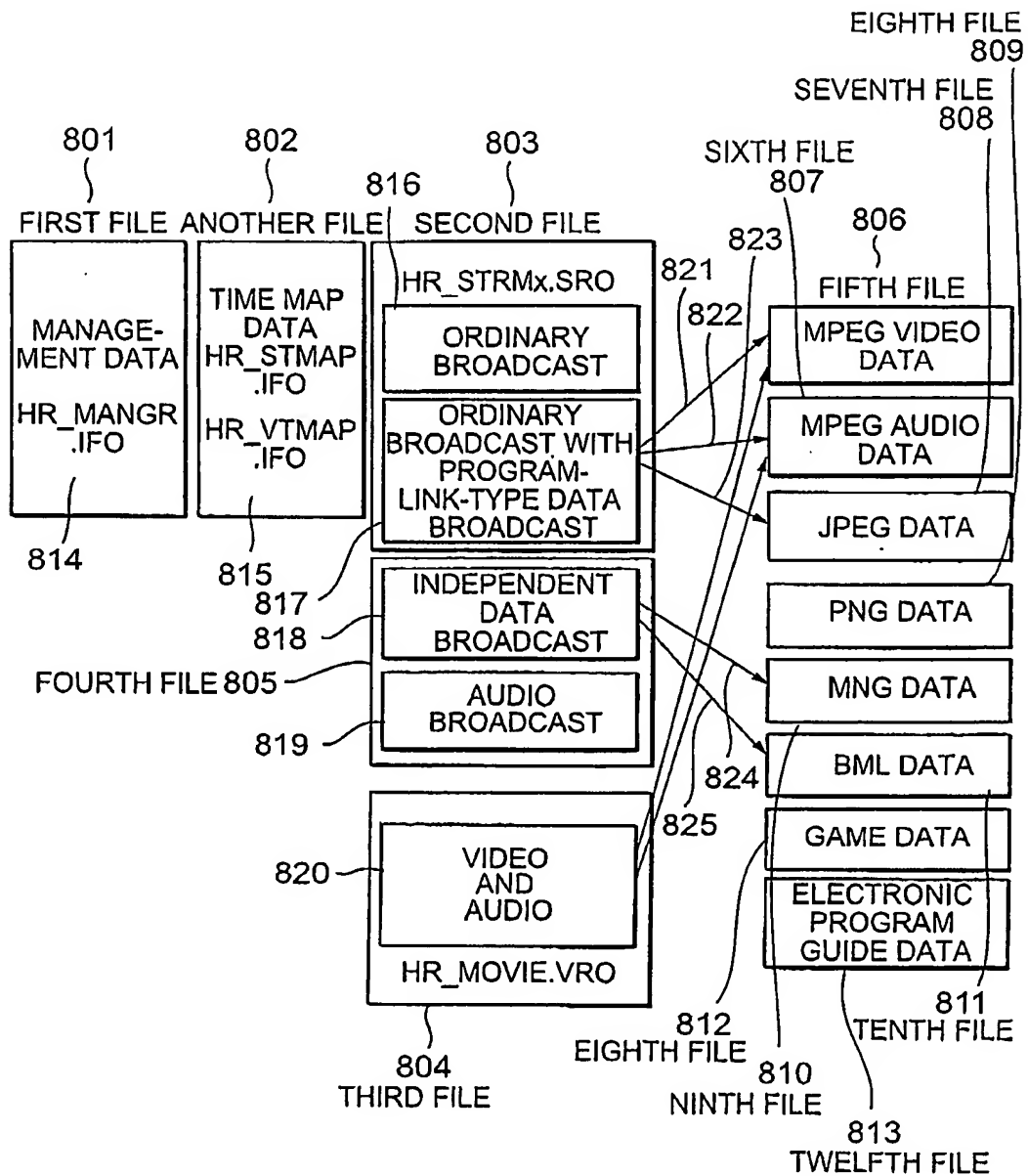


FIG. 8

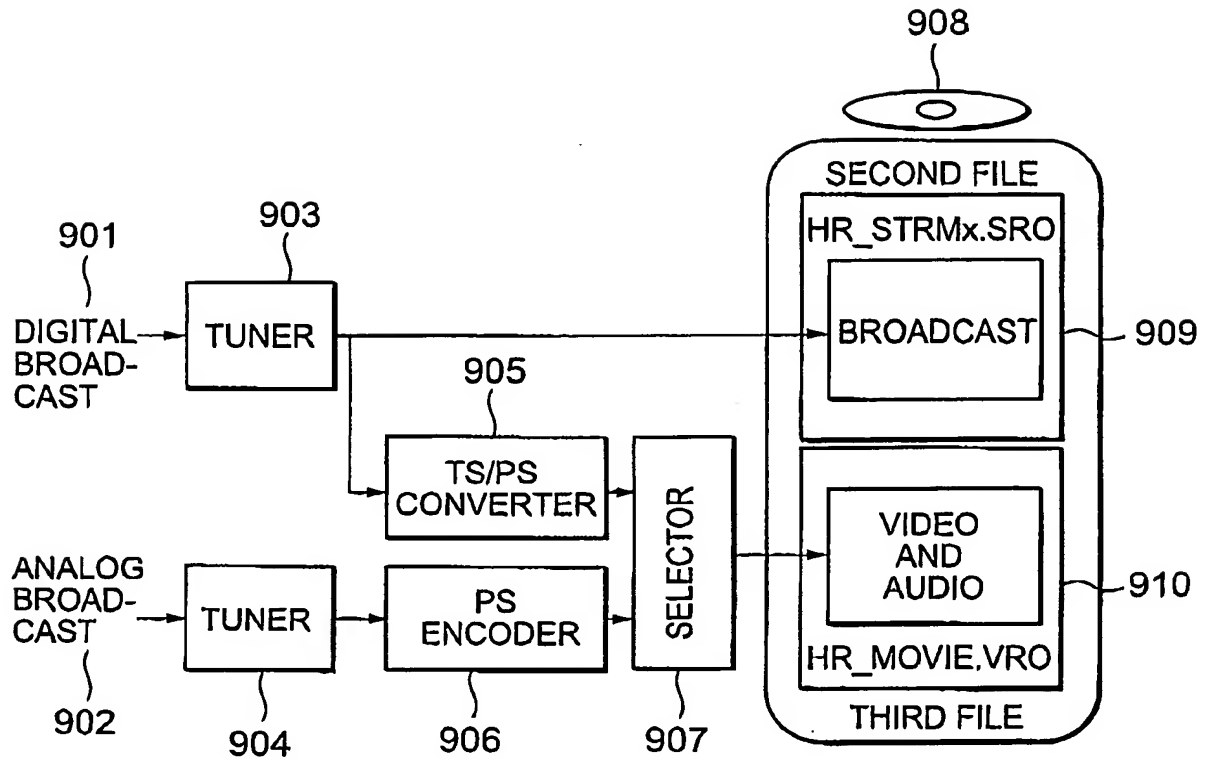


FIG. 9

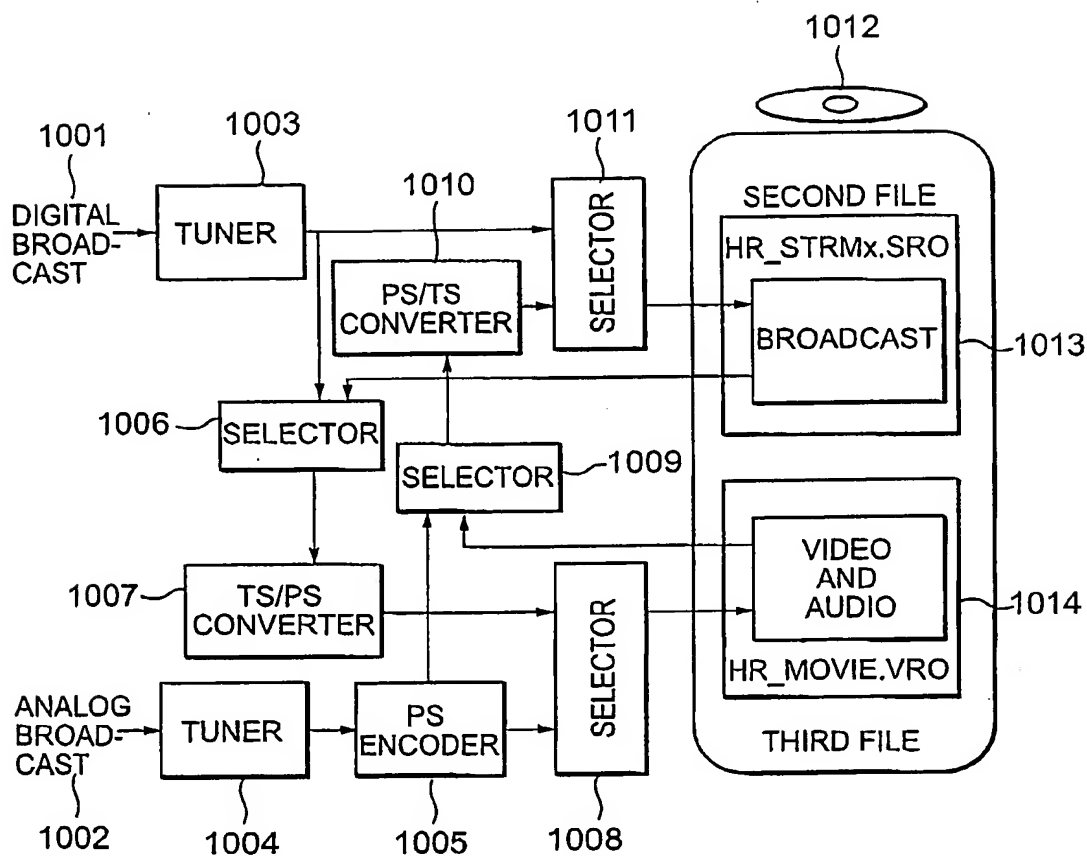


FIG. 10

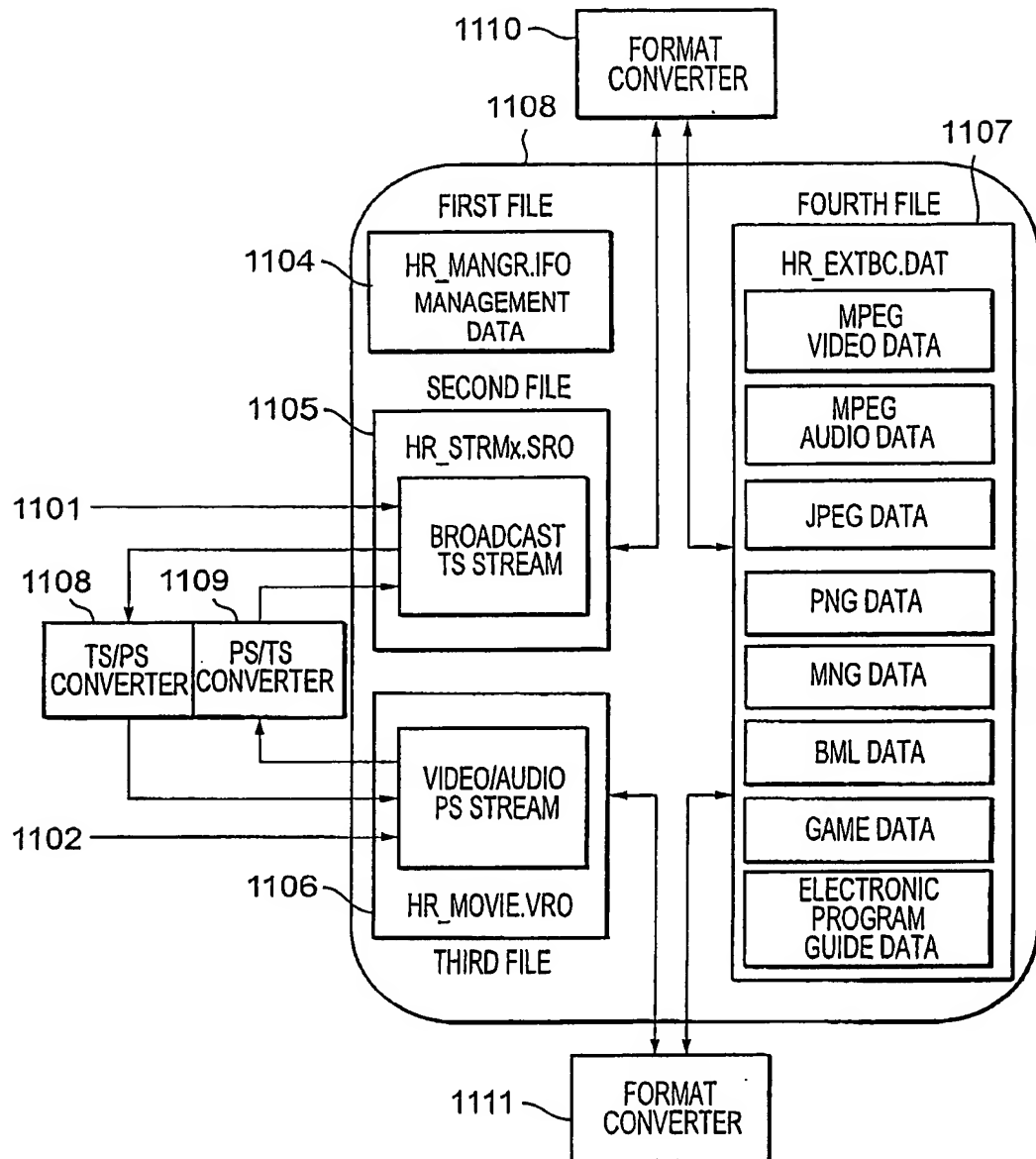


FIG. 11

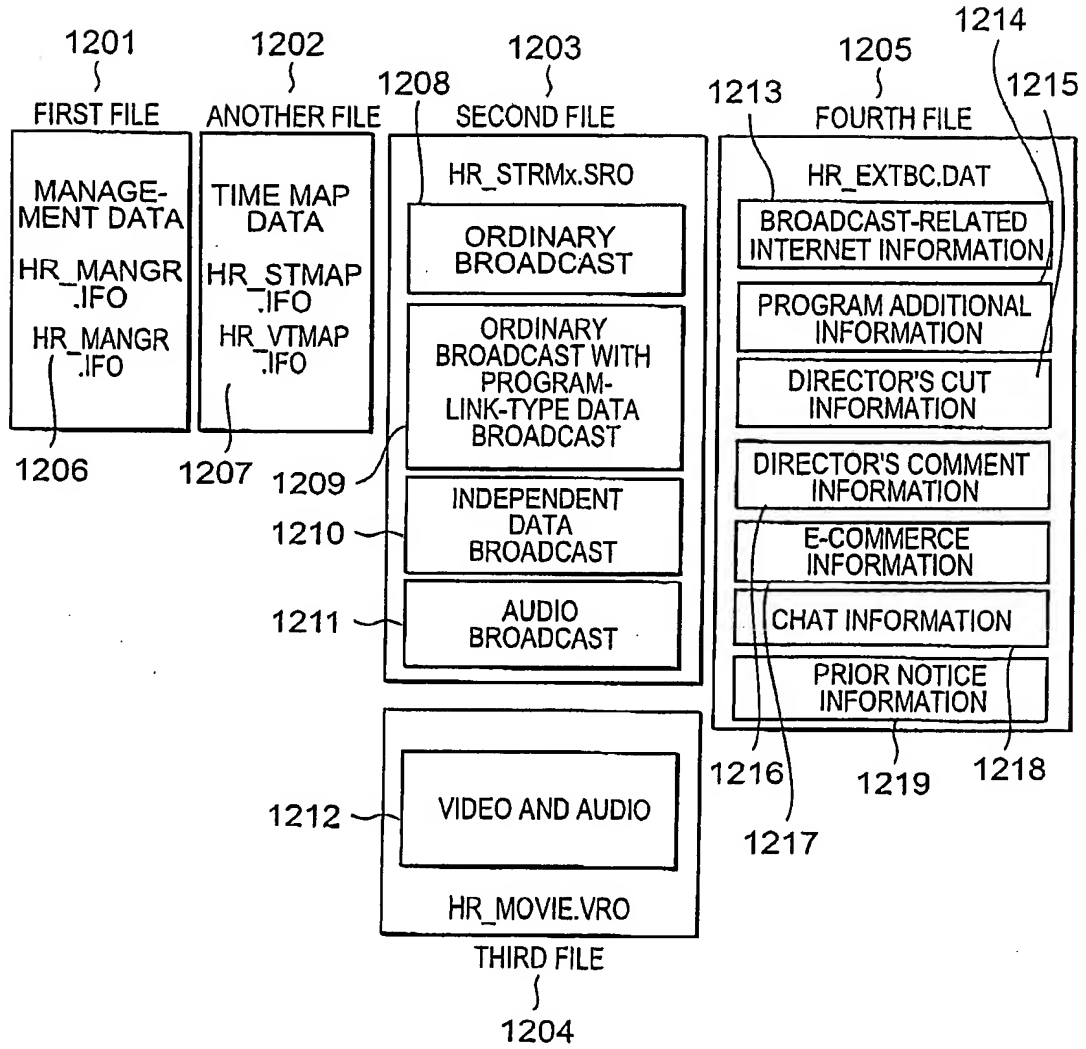


FIG. 12

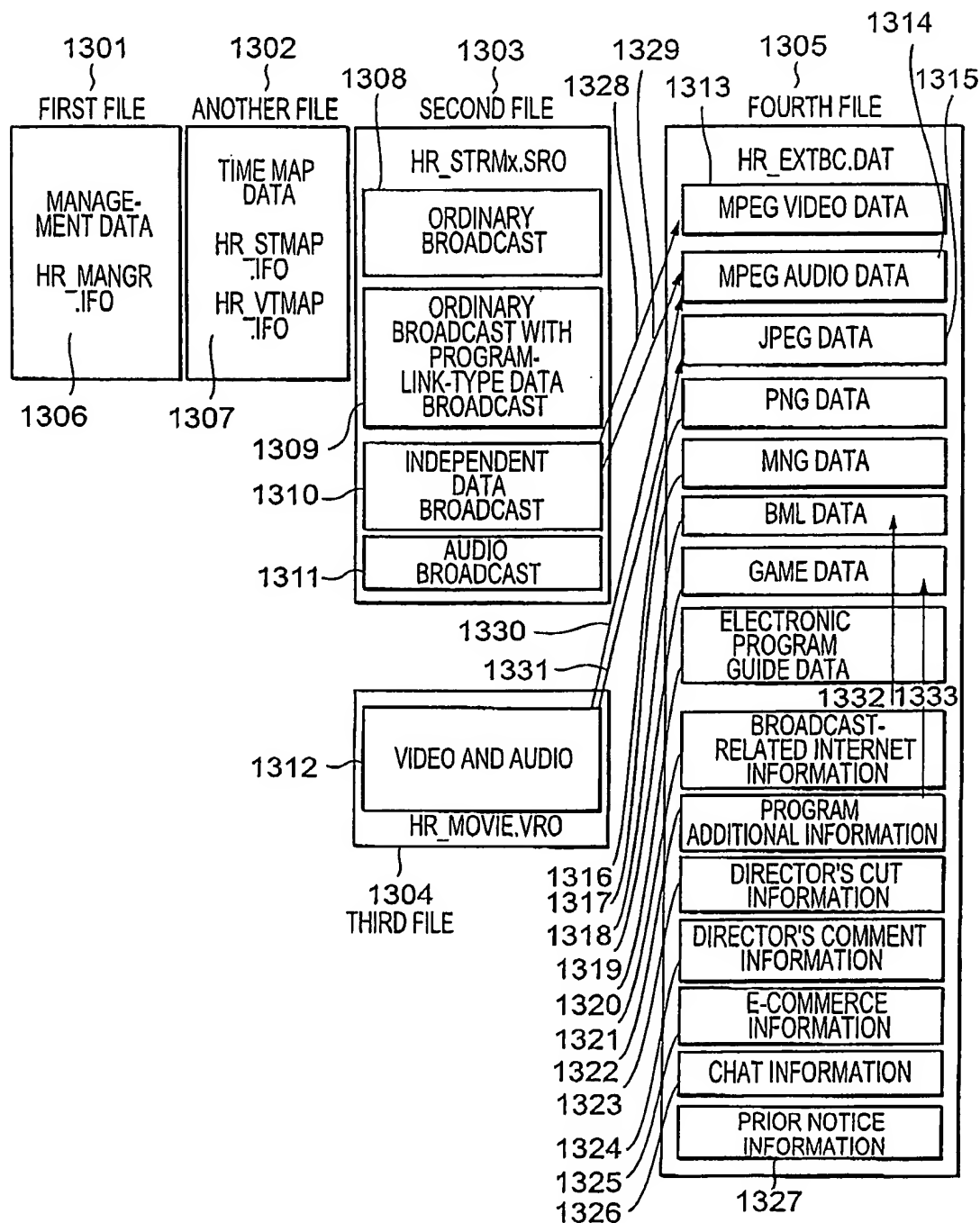


FIG. 13

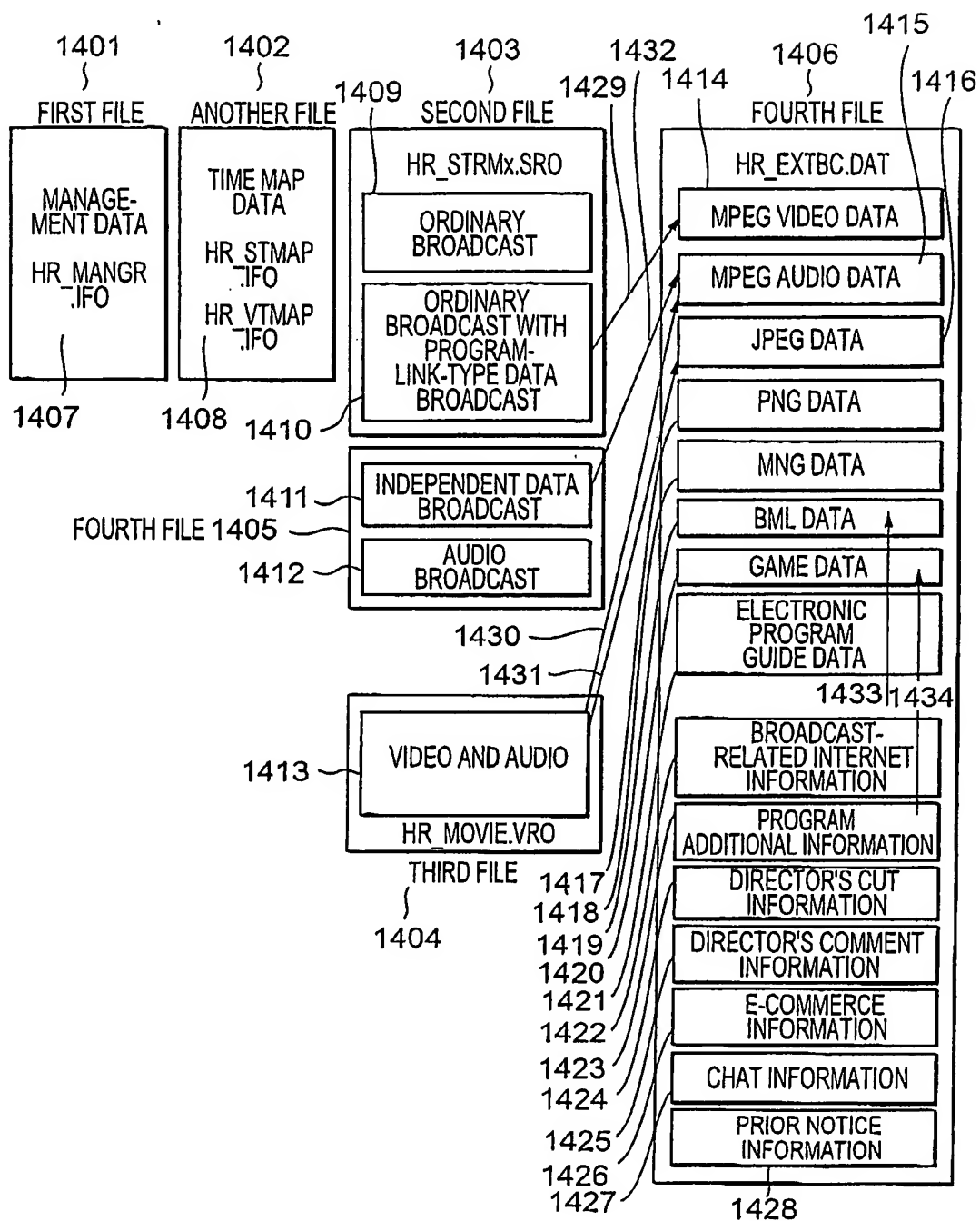


FIG. 14

DVD_HDVR
HR_MANGR.IFO
STREAM FILE INFORMATION TABLE (STM_AVFIT)
STM_AVFIT INFORMATION (INFORMATION ON THE ENTIRE FILE) BROADCAST RECORDING FILE ID FLAG
(BROADCAST RECORDING FILE IDENTIFICATION FLAG)
0TH BIT 0: DIGITAL BROADCAST WITHOUT DATA BROADCAST NOT INCLUDED IN
HR_STRMX.SRO 1: INCLUDED
1ST BIT 0: DIGITAL BROADCAST WITH LINK-TYPE DATA BROADCAST NOT
INCLUDED IN HR_STRMX.SRO 1: INCLUDED
2ND BIT 0: INDEPENDENT BROADCAST NOT INCLUDED IN HR_STRMX.SRO 1: INCLUDED
3RD BIT 0: INDEPENDENT AUDIO (RADIO) BROADCAST NOT INCLUDED IN HR_STRMX.SRO 1: INCLUDED
4TH BIT 0: TEXT BROADCAST NOT INCLUDED IN HR_STRMX.SRO 1: INCLUDED
5TH BIT 0: ANALOG BROADCAST NOT INCLUDED IN HR_STRMX.SRO 1: INCLUDED OTHER BITS: RESERVED
EXTRA BROADCAST RELATED DATA RECORDING FILE ID FLAG
(NON-BROADCAST RELATED INFORMATION RECORDING FILE IDENTIFICATION FLAG)
0TH BIT 0: RELATED INFORMATION OTHER THAN BROADCAST NOT INCLUDED IN
HR_STRMX.SRO 1: INCLUDED
OTHER BITS: RESERVED
SOB STREAM INFORMATION #1 TO SOB STREAM INFORMATION #N (INFORMATION ON SOB STREAMS)
BROADCAST ID FLAG (BROADCAST IDENTIFICATION FLAG)
BROADCAST FLAG (BROADCAST FLAG)
0TH BIT 0: DIGITAL BROADCAST WITHOUT DATA BROADCAST NOT INCLUDED IN SOB STREAM 1: INCLUDED
1ST BIT 0: DIGITAL BROADCAST WITH LINK-TYPE DATA BROADCAST NOT
INCLUDED IN SOB STREAM 1: INCLUDED
2ND BIT 0: INDEPENDENT BROADCAST NOT INCLUDED IN SOB STREAM 1: INCLUDED
3RD BIT 0: INDEPENDENT AUDIO (RADIO) BROADCAST NOT INCLUDED IN SOB STREAM 1: INCLUDED
4TH BIT 0: TEXT BROADCAST NOT INCLUDED IN SOB STREAM 1: INCLUDED
5TH BIT 0: ANALOG BROADCAST NOT INCLUDED IN SOB STREAM 1: INCLUDED
OTHER BITS: RESERVED
COPY MOVE FLAG (COPIED OR MOVED)
000: ORIGINAL, 001: COPIED, 010: MOVED, 011-111: OTHERS
SOURCE FILE INFORMATION (SOURCE FILE INFORMATION)
000: ORIGINAL
001: COPIED OR MOVED DATA, AND NO SOURCE EXISTS OR LOCATION OF SOURCE IS NOT KNOWN
010: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_STRMX.SRO
011: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_SMOVIE.VRO
100: COPIED OR MOVED DATA, AND SOURCE EXISTS IN EXTBC.DAT
101-111: RESERVED
SOURCE STREAM NAME (SOURCE STREAM NAME)
STREAM NAME IF EXISTS, ALL "0" IF NOT EXISTS
SOURCE STREAM NUMBER (SOURCE STREAM NUMBER)
SOB NUMBER, VOB NUMBER, OR EXTRA STREAM NUMBER OF SOURCE STREAM
SOURCE VIDEO MODE (SOURCE VIDEO MODE)
000: MPEG-2, 001: MPEG-1, 010: MPEG-4, 011: H.264, 100: WM9,

FIG. 15

101-111: RESERVED
SOURCE AUDIO MODE (SOURCE AUDIO MODE)
000: MPEG-2 AAC, 001: DOLBY AC-3, 010: MPEG-1, 011: MPEG-2 BC
100: DTS, 101: LPCM, 110-111: RESERVED
SOURCE STILL-PICTURE MODE (SOURCE STILL-PICTURE MODE)
000: JPEG, 001: PNG, 010-111: RESERVED
SOURCE ANIMATION MODE (SOURCE ANIMATION MODE)
000: MNG, 001-111: RESERVED
SOURCE DATA BROADCAST MODE (SOURCE DATA BROADCAST MODE)
000: BML, 001-111: RESERVED
SOURCE GAME DATA MODE (SOURCE GAME DATA MODE, 000-111: RESERVED)
SOURCE EPG DATA MODE (SOURCE EPG DATA MODE, 000-111: RESERVED)
SOURCE GRAPHIC MODE (SOURCE GRAPHIC MODE, 000-111: RESERVED)
SOURCE 3D VIDEO MODE (SOURCE THREE-DIMENSIONAL VIDEO MODE, 000-111: RESERVED)
SOURCE STREAM MODE (SOURCE STREAM MODE)
000: TS, 001: PS, 010: PES, 011: ES
100-111: RESERVED
RECORDED DATA VIDEO MODE (VIDEO MODE)
000: MPEG-2, 001: MPEG-1, 010: MPEG-4, 011: H.264, 100: WM9
101-111: RESERVED
RECORDED DATA AUDIO MODE (AUDIO MODE)
000: MPEG-2 AAC, 001: DOLBY AC-3, 010: MPEG-1, 011: MPEG-2 BC, 100: DTS, 101: LPCM
110-111: RESERVED
RECORDED DATA STILL-PICTURE MODE (STILL-PICTURE MODE)
000: JPEG, 001: PNG, 010-111: RESERVED
RECORDED DATA ANIMATION MODE (ANIMATION MODE)
000: MNG, 001-111: RESERVED
RECORDED DATA DATA BROADCAST MODE (DATA BROADCAST MODE)
000: BML, 001-111: RESERVED
RECORDED DATA GAME DATA MODE (GAME DATA MODE, 000-111: RESERVED)
RECORDED DATA EPG DATA MODE (EPG DATA MODE, 000-111: RESERVED)
RECORDED DATA GRAPHIC MODE (GRAPHIC MODE, 000-111: RESERVED)
RECORDED DATA 3D VIDEO MODE (3D VIDEO MODE, 000-111: RESERVED)
RECORDED DATA STREAM MODE (STREAM MODE)
000: TS, 001: PS, 010: PES, 011: ES
100-111: RESERVED
EXTRA BROADCAST RELATED DATA ID FLAG
(RELATED INFORMATION IDENTIFICATION FLAG OTHER THAN BROADCAST)
EXTRA BROADCAST RELATED DATA FLAG
(RELATED INFORMATION FLAG OTHER THAN BROADCAST)
0TH BIT 0: RELATED INFORMATION OTHER THAN BROADCAST NOT INCLUDED SOB STREAM,
1: INCLUDED
OTHER BITS: RESERVED

FIG. 16

BROADCAST RELATED DATA CONTENT
(RELATED INFORMATION CONTENTS OTHER THAN BROADCAST)
000: RELATED INFORMATION OTHER THAN BROADCAST IS ORDINARY INTERNET DATA
001: STREAMING DATA
010: OTHERS, 011-111: RESERVED
DATA BROADCAST DATA (DATA BROADCAST RELATED DATA)
TRANSMISSION MODE
00: DATA CAROUSEL MODE
01: EVENT MESSAGE TRANSMISSION MODE
10: TRANSMISSION MODE INCLUDING BOTH
11: RESERVED
DATA CARROUSEL AUTO RENEWAL
00: MODE OF RECORDING ALL DATA IN BROADCAST DATA CAROUSEL
01: MODE OF SELECTIVELY RECORDING ONLY UPDATED IN BROADCAST DATA CAROUSEL
10-11: RESERVED
REFRESH FLAG
00: AUTOMATIC UPDATE OF OLD DATA WITH NEW DATA IS OFF FOR NEWS,
WEATHER FORECAST, STOCK INFORMATION, ETC.
01: AUTOMATIC UPDATE OF OLD DATA WITH NEW DATA IS ON FOR NEWS,
WEATHER FORECAST, STOCK INFORMATION, ETC.
10-11: RESERVED
REFRESH START TIME
LATEST DATA UPDATE START TIME (5 BYTES)
YEAR (14 BITS), MONTH (4 BITS), DAY (5 BITS)
HOUR (5 BITS), MINUTE (6 BITS), AND SECOND (6 BITS)
REFRESH END TIME
LATEST DATA UPDATE END TIME (5 BYTES)
YEAR (14 BITS), MONTH (4 BITS), DAY (5 BITS)
HOUR (5 BITS), MINUTE (6 BITS), AND SECOND (6 BITS)
TIME MAP FLAG
00: STREAM HAS NO TIME MAP
01: STREAM HAS TIME MAP
10-11: RESERVED
STORAGE BROADCAST FLAG
00: ORDINARY BROADCAST STREAM
01: SERVER-TYPE BROADCAST STREAM
10-11: RESERVED

FIG. 17

MOVIE AV FILE INFORMATION TABLE (A_AVFIT)
M_AVFIT INFORMATION (INFORMATION ON THE ENTIRE FILE)
BROADCAST RECORDING FILE ID FLAG (BROADCAST RECORDING FILE IDENTIFICATION FLAG)
0TH BIT 0: DIGITAL BROADCAST WITHOUT DATA BROADCAST NOT INCLUDED IN HR_MOVIE.VOB,
1: INCLUDED
1ST BIT 0: DIGITAL BROADCAST WITH LINK-TYPE DATA BROADCAST NOT INCLUDED IN
HR_MOVIE.VOB, 1: INCLUDED
2ND BIT 0: INDEPENDENT BROADCAST NOT INCLUDED IN HR_MOVIE.VOB, 1: INCLUDED
3RD BIT 0: INDEPENDENT AUDIO (RADIO) BROADCAST NOT INCLUDED IN HR_MOVIE.VOB,
1: INCLUDED
4TH BIT 0: TEXT BROADCAST NOT INCLUDED IN HR_MOVIE.VOB, 1: INCLUDED
5TH BIT 0: ANALOG BROADCAST NOT INCLUDED IN HR_MOVIE.VOB, 1: INCLUDED
OTHER BITS: RESERVED
EXTRA BROADCAST RELATED DATA RECORDING FILE ID FLAG (RELATED INFORMATION RECORDING
FILE IDENTIFICATION FLAG OTHER THAN BROADCAST)
0TH BIT 0: NON-BROADCAST RELATION INFORMATION NOT INCLUDED IN HR_MOVIE.VOB,
1: INCLUDED
OTHER BITS: RESERVED
MOVIE VOB INFORMATION #1- MOVIE VOB INFORMATION #N (INFORMATION ON VOBS)
BROADCAST ID FLAG (BROADCAST IDENTIFICATION FLAG)
BROADCAST FLAG (BROADCAST FLAG)
0TH BIT 0: DIGITAL BROADCAST WITHOUT DATA BROADCAST NOT INCLUDED IN MOVIE VOB,
1: INCLUDED
1ST BIT 0: DIGITAL BROADCAST WITH LINK-TYPE DATA BROADCAST NOT INCLUDED IN MOVIE VOB,
1: INCLUDED
2ND BIT 0: INDEPENDENT DATA BROADCAST NOT INCLUDED IN MOVIE VOB, 1: INCLUDED
3RD BIT 0: INDEPENDENT AUDIO (RADIO) BROADCAST NOT INCLUDED IN MOVIE VOB, 1: INCLUDED
4TH BIT 0: TEXT BROADCAST NOT INCLUDED IN MOVIE VOB, 1: INCLUDED
5TH BIT 0: ANALOG BROADCAST NOT INCLUDED IN MOVIE VOB, 1: INCLUDED
OTHER BITS: RESERVED
COPY MOVE FLAG (COPIED OR MOVED)
000: ORIGINAL, 001: COPIED, 010: MOVED, 011-111: OTHERS
SOURCE FILE INFORMATION (SOURCE FILE INFORMATION)
000: ORIGINAL
001: COPIED OR MOVED DATA, AND NO SOURCE EXISTS OR LOCATION OF SOURCE IS NOT KNOWN
010: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_STRMX.SRO
011: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_MOVIE.VRO
100: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_EXTBC.DAT
101-111: RESERVED
SOURCE STREAM NAME (SOURCE STREAM NAME)
STREAM NAME IF EXISTS, ALL "0" IF NOT EXISTS
SOURCE STREAM NUMBER (SOURCE STREAM NUMBER)
SOB NUMBER, VOB NUMBER, OR EXTRA STREAM NUMBER OF SOURCE STREAM
SOURCE VIDEO MODE (SOURCE VIDEO MODE)
000: MPEG-2, 001: MPEG-1, 010: MPEG-4, 011: H.264, 100: WM9
101-111: RESERVED
SOURCE AUDIO MODE (SOURCE AUDIO MODE)
000: MPEG-2 AAC, 001: DOLBY AC-3, 010: MPEG-1, 011: MPEG-2 BC, 100: DTS, 101: LPCM
110-111: RESERVED

FIG. 18

SOURCE STILL-PICTURE MODE (SOURCE STILL-PICTURE MODE)
000: JPEG, 001: PNG, 010-111: RESERVED
SOURCE ANIMATION MODE (SOURCE ANIMATION MODE)
000: MNG, 001-111: RESERVED
SOURCE DATA BROADCAST MODE (SOURCE DATA BROADCAST MODE)
000: BML, 001-111: RESERVED
SOURCE GAME DATA MODE (SOURCE GAME DATA MODE, 000-111: RESERVED)
SOURCE EPG DATA MODE (SOURCE EPG DATA MODE, 000-111: RESERVED)
SOURCE GRAPHIC MODE (SOURCE GRAPHIC MODE, 000-111: RESERVED)
SOURCE 3D VIDEO MODE (SOURCE THREE-DIMENSIONAL VIDEO MODE, 000-111: RESERVED)
SOURCE STREAM MODE (SOURCE STREAM MODE)
000: TS, 001: PS, 010: PES, 011: ES,
100-111: RESERVED
RECORDED DATA VIDEO MODE (VIDEO MODE)
000: MPEG-2, 001: MPEG-1, 010: MPEG-4, 011: H.264, 100: WM9,
101-111: RESERVED
RECORDED DATA AUDIO MODE (AUDIO MODE)
000: MPEG-2 AAC, 001: DOLBY AC-3, 010: MPEG-1, 011: MPEG-2 BC, 100: DTS, 101: LPCM,
110-111: RESERVED
RECORDED DATA STILL-PICTURE MODE (STILL-PICTURE MODE)
000: JPEG, 001: PNG, 010-111: RESERVED
RECORDED DATA ANIMATION MODE (ANIMATION MODE)
000: MNG, 001-111: RESERVED
RECORDED DATA DATA BROADCAST MODE (DATA BROADCAST MODE)
000: BML, 001-111: RESERVED
RECORDED DATA GAME DATA MODE (GAME DATA MODE, 000-111: RESERVED)
RECORDED DATA EPG DATA MODE (EPG DATA MODE, 000-111: RESERVED)
RECORDED DATA GRAPHIC DATA MODE (GRAPHIC DATA MODE, 000-111: RESERVED)
RECORDED DATA 3D VIDEO MODE (THREE-DIMENSIONAL VIDEO MODE, 000-111: RESERVED)
RECORDED DATA STREAM MODE (STREAM MODE)
000: TS, 001: PS, 010: PES, 011: ES,
100-111: RESERVED
EXTRA BROADCAST RELATED DATA ID FLAG
(RELATED INFORMATION IDENTIFICATION FLAG OTHER THAN BROADCAST)
EXTRA BROADCAST RELATED DATA FLAG
(RELATED INFORMATION FLAG OTHER THAN BROADCAST)
0TH BIT 0: RELATED INFORMATION OTHER THAN BROADCAST NOT INCLUDED IN MOVIE VOB,
1: INCLUDED
OTHER BITS: RESERVED
BROADCAST RELATED DATA CONTENT
(RELATED INFORMATION CONTENT OTHER THAN BROADCAST)
000: NON-BROADCAST INFORMATION IS ORDINARY INTERNET DATA, 00: STREAMING DATA,
010: OTHERS, 011-111: RESERVED

FIG. 19

XTRA BROADCAST FILE INFORMATION TABLE (EXT_AVFIT)
EXT_AVFIT INFORMATION (INFORMATION ON THE ENTIRE FILE)
BROADCAST RECORDING FILE ID FLAG (BROADCAST RECORDING FILE IDENTIFICATION FLAG)
0TH BIT 0: DIGITAL BROADCAST WITHOUT DATA BROADCAST NOT INCLUDED IN HR_EXTBC.DAT, 1: INCLUDED
1ST BIT 0: DIGITAL BROADCAST WITH LINK-TYPE DATA BROADCAST NOT INCLUDED IN
HR_EXTBC.DAT, 1: INCLUDED
2ND BIT 0: INDEPENDENT DATA BROADCAST NOT INCLUDED IN HR_EXTBC.DAT, 1: INCLUDED
3RD BIT 0: INDEPENDENT AUDIO (RADIO) BROADCAST NOT INCLUDED IN HR_EXTBC.DAT, 1: INCLUDED
4TH BIT 0: TEXT BROADCAST NOT INCLUDED IN HR_EXTBC.DAT, 1: INCLUDED
5TH BIT 0: ANALOG BROADCAST NOT INCLUDED IN HR_EXTBC.DAT, 1: INCLUDED
OTHER BITS: RESERVED
EXTRA BROADCAST RELATED DATA RECORDING FILE ID FLAG
(RELATED INFORMATION RECORDING FILE IDENTIFICATION FLAG OTHER THAN BROADCAST)
0TH BIT 0: RELATED INFORMATION OTHER THAN BROADCAST NOT INCLUDED IN HR_EXTBC.DAT, 1: INCLUDED
OTHER BITS: RESERVED
EXTRA STREAM INFORMATION #1 TO EXTRA STREAM INFORMATION #N (INFORMATION ON EACH STREAM)
BROADCAST ID FLAG (BROADCAST IDENTIFICATION FLAG)
BROADCAST FLAG (BROADCAST FLAG)
0TH BIT 0: DIGITAL BROADCAST WITHOUT DATA BROADCAST NOT INCLUDED IN EXTRA STREAM, 1: INCLUDED
1ST BIT 0: DIGITAL BROADCAST WITH LINK-TYPE DATA BROADCAST NOT INCLUDED IN EXTRA STREAM,
1: INCLUDED
2ND BIT 0: INDEPENDENT DATA BROADCAST NOT INCLUDED IN EXTRA STREAM, 1: INCLUDED
3RD BIT 0: INDEPENDENT AUDIO (RADIO) BROADCAST NOT INCLUDED IN EXTRA STREAM, 1: INCLUDED
4TH BIT 0: TEXT BROADCAST NOT INCLUDED IN EXTRA STREAM, 1: INCLUDED
5TH BIT 0: ANALOG BROADCAST NOT INCLUDED IN EXTRA STREAM, 1: INCLUDED
OTHER BITS: RESERVED
COPY MOVE FLAG (COPIED OR MOVED)
000: ORIGINAL, 001: COPIED, 010: MOVED, 011-111: OTHERS
SOURCE FILE INFORMATION (SOURCE FILE INFORMATION)
000: ORIGINAL
001: COPIED OR MOVED DATA, AND NO SOURCE EXISTS OR LOCATION OF SOURCE IS NOT KNOWN
010: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_STRMX.SRO
011: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_MOVIE.VRO
100: COPIED OR MOVED DATA, AND SOURCE EXISTS IN HR_EXTBC.DAT
101-111: RESERVED
SOURCE STREAM NAME (SOURCE STREAM NAME)
STREAM NAME IF EXISTS, ALL "0" IF NOT EXISTS
SOURCE STREAM NUMBER (SOURCE STREAM NUMBER)
SOB NUMBER, VOB NUMBER, OR EXTRA STREAM NUMBER OF SOURCE STREAM
SOURCE VIDEO MODE (SOURCE VIDEO MODE)
000: MPEG-2, 001: MPEG-1, 010: MPEG-4, 011: H.264, 100: WM9,
101-111: RESERVED
SOURCE AUDIO MODE (SOURCE AUDIO MODE)
000: MPEG-2 AAC, 001: DOLBY AC-3, 010: MPEG-1, 011: MPEG-2 BC, 100: DTS, 101: LPCM,
110-111: RESERVED

FIG. 20

SOURCE STILL-PICTURE MODE (SOURCE STILL-PICTURE MODE)
000: JPEG, 001: PNG, 010-111: RESERVED
SOURCE ANIMATION MODE (SOURCE ANIMATION MODE)
000: MNG, 001-111: RESERVED
SOURCE DATA BROADCAST MODE (SOURCE DATA BROADCAST MODE)
000: BML, 001-111: RESERVED
SOURCE GAME DATA MODE (SOURCE GAME DATA MODE, 000-111: RESERVED)
SOURCE EPG DATA MODE (SOURCE EPG DATA MODE, 000-111: RESERVED)
SOURCE GRAPHIC MODE (SOURCE GRAPHIC MODE, 000-111: RESERVED)
SOURCE 3D VIDEO MODE (SOURCE THREE-DIMENSIONAL VIDEO MODE, 000-111: RESERVED)
SOURCE STREAM MODE (SOURCE STREAM MODE)
000: TS, 001: PS, 010: PES, 011: ES,
100-111: RESERVED
RECORDED DATA VIDEO MODE (VIDEO MODE)
000: MPEG-2, 001: MPEG-1, 010: MPEG-4, 011: H.264, 100: WM9,
101-111: RESERVED
RECORDED DATA AUDIO MODE (AUDIO MODE)
000: MPEG-2 AAC, 001: DOLBY AC-3, 010: MPEG-1, 011: MPEG-2 BC, 100: DTS, 101: LPCM,
110-111: RESERVED
RECORDED DATA STILL-PICTURE MODE (STILL-PICTURE MODE)
000: JPEG, 001: PNG, 010-111: RESERVED
RECORDED DATA ANIMATION MODE (ANIMATION MODE)
000: MNG, 001-111: RESERVED
RECORDED DATA DATA BROADCAST MODE (DATA BROADCAST MODE)
000: BML, 001-111: RESERVED
RECORDED DATA GAME DATA MODE (GAME DATA MODE, 000-111: RESERVED)
RECORDED DATA EPG DATA MODE (EPG DATA MODE, 000-111: RESERVED)
RECORDED DATA GRAPHIC MODE (GRAPHIC MODE, 000-111: RESERVED)
RECORDED DATA 3D VIDEO MODE (THREE-DIMENSIONAL VIDEO MODE, 000-111: RESERVED)
RECORDED DATA STREAM MODE (STREAM MODE)
000: TS, 001: PS, 010: PES, 011: ES,
100-111: RESERVED
EXTRA BROADCAST RELATED DATA ID FLAG
(RELATED INFORMATION IDENTIFICATION FLAG OTHER THAN BROADCAST)
EXTRA BROADCAST RELATED DATA FLAG
(RELATED INFORMATION FLAG OTHER THAN BROADCAST)
0TH BIT 0: RELATED INFORMATION OTHER THAN BROADCAST NOT INCLUDED IN
EXTRA STREAM, 1: INCLUDED
OTHER BITS: RESERVED
BROADCAST RELATED DATA CONTENT
(RELATED INFORMATION CONTENT OTHER THAN BROADCAST)
000: NON-BROADCAST INFORMATION IS ORDINARY INTERNET DATA,
00: STREAMING DATA, 010: OTHERS, 011-111: RESERVED

FIG. 21

DATA BROADCAST DATA (DATA BROADCAST RELATED DATA)

- TRANSMISSION MODE
 - 00: DATA CAROUSEL MODE
 - 01: EVENT MESSAGE TRANSMISSION MODE
 - 10: TRANSMISSION MODE INCLUDING BOTH
 - 11: RESERVED
- DATA CAROUSEL AUTO RENEWAL
 - 00: MODE OF RECORDING ALL DATA IN BROADCAST CAROUSEL DATA
 - 01: MODE OF SELECTIVELY RECORDING ONLY UPDATED DATA IN BROADCAST DATA CAROUSEL
 - 10-11: RESERVED
- REFRESH FLAG
 - 00: AUTOMATIC UPDATE OF OLD DATA WITH NEW DATA IS OFF FOR NEWS, WEATHER FORECAST, STOCK INFORMATION, ETC.
 - 01: AUTOMATIC UPDATE OF OLD DATA WITH NEW DATA IS ON FOR NEWS, WEATHER FORECAST, STOCK INFORMATION, ETC.
 - 10-11: RESERVED
- REFRESH START TIME
 - LATEST DATA UPDATE START TIME (5 BYTES)
 - YEAR (14 BITS), MONTH (4 BITS), DAY (5 BITS),
 - HOUR (5 BITS), MINUTE (6 BITS), AND SECOND (6 BITS)
- REFRESH END TIME
 - LATEST DATA UPDATE END TIME (5 BYTES)
 - YEAR (14 BITS), MONTH (4 BITS), DAY (5 BITS),
 - HOUR (5 BITS), MINUTE (6 BITS), AND SECOND (6 BITS)
- TIME MAP FLAG
 - 00: STREAM HAS NO TIME MAP
 - 01: STREAM HAS TIME MAP
 - 10-11: RESERVED
- STORAGE BROADCAST FLAG
 - 00: ORDINARY BROADCAST STREAM
 - 01: SERVER-TYPE BROADCAST STREAM
 - 10-11: RESERVED

FIG. 22

HR_STMAP.IFO
1PMT PARTIAL TS TIME MAP TABLE IN HR_STRX.SRO
1STREF_SZ: SOBU 1ST REFERENCE PICTURE SIZE
SOBU_PB_TM: SOBU REPRODUCTION TIME (NUMBER OF VIDEO FIELDS)
SOBU_SZ: SOBU SIZE (NUMBER OF SECTORS)
HR_VTMAP.IFO
HR_MOVIE.VRO TIME MAP TABLE
1STREF_SZ: VOB 1ST REFERENCE PICTURE SIZE
VOBU_PB_TM: VOB REPRODUCTION TIME (NUMBER OF VIDEO FIELDS)
VOBU_SZ: VOB SIZE (NUMBER OF SECTORS)
HR_STRMX.SRO
DIGITAL BROADCAST, DIGITAL BROADCAST WITH PROGRAM-LINK-TYPE DATA
BROADCAST, INDEPENDENT DATA BROADCAST,
AUDIO BROADCAST STREAM
TEXT BROADCAST DATA
HR_MOVIE.VRO
ANALOG BROADCAST VIDEO/AUDIO STREAM
HR_EXTBC.DAT
DATA FILE HAVING DATA BROADCAST DIRECTLY RECORDED,
OR PARTIALLY COPIED OR MOVED, AND OTHER STREAMS

FIG. 23

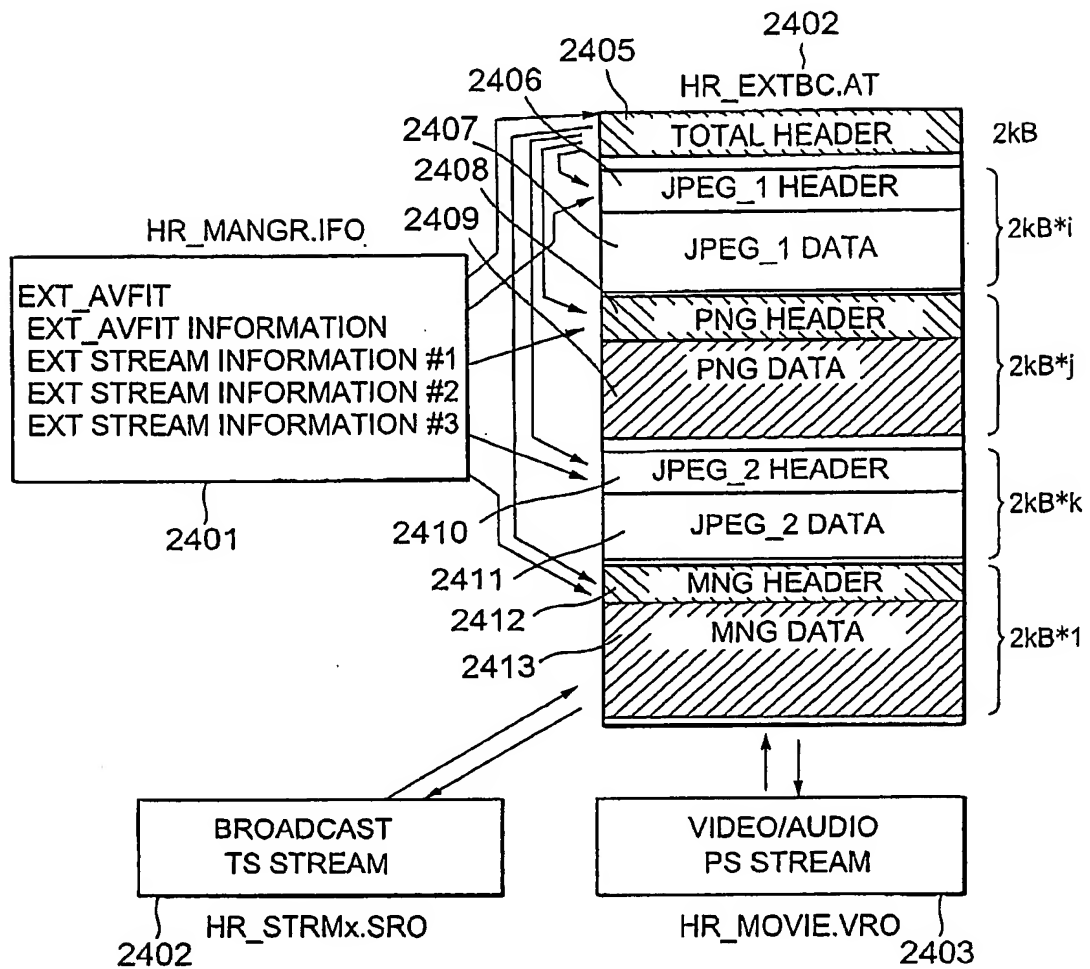


FIG. 24